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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/692,318	10/22/2003	Ho Ming Chun	3086/1427	8555

28533 7590 06/17/2005

IN RE: ALTICOR INC. 28533
BRINKS, HOFER, GILSON & LIONE
P.O. BOX 10395
CHICAGO, IL 60610

EXAMINER

VANIK, DAVID L

ART UNIT	PAPER NUMBER
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1615

DATE MAILED: 06/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/692,318

Applicant(s)

CHUN ET AL.

Examiner

David L. Vanik

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) 12-19 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-11 and 20 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☒ Claim(s) 1-20 are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

Receipt is acknowledged of the applicant's Oath or Declaration filed on 4/19/2004.

Receipt is also acknowledged of the applicant's Information Disclosure Statements filed on 5/13/2004 and 3/28/2005.

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-11, 20 drawn to a composition comprising melanin, classified in class 424, subclass 59.
 - II. Claim 12-19, drawn to a method for protecting hair and artificial hair color from environmental insults, classified in class 424, subclass 70.1.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the product can be used in a materially different application. A melanin-based composition can be used in cosmetic products, such as foundation and mascara (See US Patent 5,380,359).

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3. Searching the inventions of Groups I – II together would impose a search burden on the examiner. In the instant case, the search of a composition and a method of using said composition would impose a burden on the examiner.

4. Because these inventions are distinct for the reasons given above and the search required for each subset of Groups I – II are not required for one another, restriction for examination purposes as indicated is proper.

5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

6. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

7. During a telephone conversation with Stephanie Felicetty on 6/10/2005 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-11, and 20. Affirmation of this election must be made by applicant in replying to this Office action. Claims 12-19 are withdrawn from further consideration by the examiner under 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 5,380,359 ('359).

'359 disclose melanin-based cosmetic compositions having UV absorbing and anti-oxidizing effects (abstract). According to '359, melanin can be used in shampoo compositions and rinses (column 2, line 56). The cosmetic compositions described by '359 can further comprise ultraviolet absorbers and cationic surfactants (column 2, lines 57-64 and column 3, lines 9-40). As a compound, melanin has both UV absorbing and anti-oxidizing properties (abstract). As a result, the compositions described by '359 further comprise an anti-oxidant (abstract).

The claims are therefore anticipated by US Patent 5,380,359 ('359).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-5, and 6-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,454,841 ('841) in view of US Patent 4,668,235 ('235) or US patent 6,605,577 ('577).

'841 teach hair care compositions comprising water-soluble melanin (abstract). The hair care compositions advanced by '841 further comprise cationic surfactants (column 2, line 47 – column 3, line 8 and Claims 1-2). According to '841, quaternary ammonium polymers such as Polyquaternium-11 can be used in the hair care composition (column 2, line 67). The amount of melanin used in the composition is between 0.1% to about 5.0% and the ratio of melanin to cationic material is from 1:4 to about 10:1 (Claim 1). As a compound, melanin has both UV absorbing and anti-oxidizing properties (See US Patent 5,380,359). As a result, the compositions described by '841 further comprise an anti-oxidant.

Claims 8 and 9 are product-by-process claims. As such, claims 8 and 9 will be treated as product claims and not as method claims. Whether melanin is synthesized or

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sunflower-derived is given no patentable weight. It should also be noted that it is the examiner's position that modifying and optimizing the above shampoo components to suitable levels without adversely affecting the skin or the active component is deemed to be within the scope of the skilled artisan.

'841 does not teach benzotriazolyl butylphenol or a benzotriazole derivative.

'235 teach a method for protecting natural or synthetic fibers with benzotriazole derivatives including benzotriazolesulfonates (abstract and column 1, lines 1-65). According to '235, benzotriazole derivatives protect natural protein, such as that found in hair, against photodegradation and phototendering (column 1, lines 27-40). There are other reasons it is advantageous to use benzotriazolesulfonates, especially benzotriazolyl butylphenol sulfonate, in hair care products. Benzotriazolyl butylphenol sulfonate can also be employed as an effective emulsifier in shampoo compositions (See US Patent 6,605,577 column 5, lines 28-29). Because benzotriazolyl butylphenol and benzotriazole derivatives are effective UV absorbers, able to protect natural proteins against photodegradation and phototendering, one of ordinary skill in the art would have been motivated to add a benzotriazole-based compound to the hair care composition advanced by '841. Based on the teachings of '235, there is a reasonable expectation that benzotriazolyl butylphenol and benzotriazole derivatives would protect natural proteins, such as those found in hair, against photodegradation and phototendering. As such, it would have been obvious to one of ordinary skill in the art at

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the time the invention was made to incorporate benzotriazolyl butylphenol or benzotriazole derivatives in the shampoo composition advanced by '841 in view of the teachings of '235.

Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,454,841 ('841) in view of US Patent 4,668,235 ('235) and further in view of WO/01/05363 ('363).

The teachings of '841 and '235 are enumerated above. Neither '841 nor '235 teach a composition comprising cinnamidopropyltrimonium chloride.

'363 teach a sunscreen composition comprising a sunscreen agent in combination with a cinnamido alkyl amine cationic quaternary salt (abstract). According to '363, the preferred cinnamido alkyl amine cationic quaternary salt is cinnamidopropyltrimonium chloride (page 5, lines 24-30). It is advantageous, according to '363, to add cinnamidopropyltrimonium chloride to a composition because it imparts grooming and styling benefits to a composition and has UV absorbing properties (page 5, lines 24-30). Because cinnamidopropyltrimonium chloride is an effective UV absorber and imparts grooming and styling benefits to a composition, one of ordinary skill in the art would have been motivated to add a cinnamidopropyltrimonium chloride to the hair care composition advanced by '841. Based on the teachings of '363, there is a reasonable expectation that cinnamidopropyltrimonium chloride would help protect

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hair from sun damage and make hair easier to groom and style. As such, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate cinnamidopropyltrimonium chloride in the shampoo composition advanced by '841 in view of the teachings of '363.

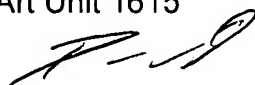
Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Vanik whose telephone number is (571) 272-3104. The examiner can normally be reached on Monday-Friday 8:30 AM - 5:00 PM.

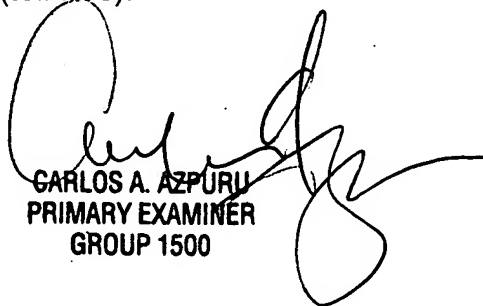
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carlos Azpuru, can be reached at (571) 272-0588. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David Vanik, Ph.D.
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6/14/05



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